

MISSOURI DEPARTMENT OF NATURAL RESOURCES ENERGY CENTER – ENERGY REVOLVING FUND

PIPE INSULATION WORKSHEET

BUILD	ING	LOCATION		DATE								
То е	estimate the savings of adding insulation to the											
	The interior pipe diameter.		t loss factor (use Heat Loss Fa	actor Table).								
	The total length (feet) of pipe to be insulated.		added insulation.									
	The pipe fluid temperature (°F).		heat loss factor (use Heat Los	ss Factor Table).								
	The pipe room temperature (°F). The hours of use per day.		efficiency (in percent). est (\$/million Btu)									
	The hours of use per day.	The chergy co	σε (ψ/million Biα)									
SAVINGS CALCULATIONS												
1.	Enter the bare pipe heat loss factor											
2.	Enter the insulated pipe heat loss factor											
3.	Subtract line 2 from line 1											
4.	Enter the pipe fluid temperature (°F)											
5.	Enter the pipe room temperature (°F)											
6.	Subtract line 5 from line 4											
7.	Enter the total length (feet) of pipe to be insulated											
8.	Enter the hours of use per year											
9.	Multiply line 3 by line 6 by line 7 by line 8 then divide by 1,000,000											
10.	Enter the heating plant efficiency (percent div	vided by 100)										
11.	Divide line 9 by line 10											
12.	Enter the energy cost (\$/million Btu)											
ANN	IUAL SAVINGS											
	Multiply line 11 by line 12		\$	/year								
PRO	JECT COST											
14.	Enter the total cost to insulate the pipe include	ling material, labor and d	esign	\$								
SIMI	PLE PAYBACK											
15.	Divide line 14 by line 13			years								

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DESCRIPTION PAGE											
	Pipe Insulation	on Energ	y - Cons	servation	Measure						
	Describe the necessary):	existing	system	and the	proposed	energy-conservation	measure	(use	additional	sheets	if

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